

# KILOVAC MAP101 Series Contactor with 1 Form A (SPST-NO) Contacts Rated up to 100 Amps, 12-900 Vdc Dual Contact Material (Cu/Mo)

### **Product Facts**

- Dual contact material (copper/moly) designed for high current make and interrupt military aerospace, ground vehicle and naval applications
- Hermetically sealed, intrinsically safe, operates in explosive/harsh environments with no oxidation or contamination of coils or contacts, during long periods of nonoperation
- Comes standard with 1 SPST-NO Aux. contact
- Not position sensitive, can be mounted in any orientation
- RoHS versions available



Physical Data Contact Arrangement — Main Contacts — SPST-Latching (form X) 1X Auxiliary Contact — SPST-NO (form A)

Dimensions — See drawing Weight, Nominal — 0.35 Kg (12.35 oz)

Environmental Data Shock, 11ms 1/2 Sine (Operating) — 20 G<sub>peak</sub> Sine Vibration, 20 G<sub>peak</sub> — 55-2000 Hz

Random Vibration, 14.06 Grms — 15 Hz (.002 G<sup>2</sup>/Hz), 100 Hz (.002 G<sup>2</sup>/Hz), 450 Hz (.12 G<sup>2</sup>/Hz), 900 Hz (.12 G<sup>2</sup>/Hz), 2000 Hz (.083 G<sup>2</sup>/Hz) Operating Temperature Range —

-55°C to +85°C

## Electrical Data

**Voltage Rating** — Main Contacts (max) — 400 Vdc Auxiliary Contacts — 30 Vdc

**Current Rating, Continuous** — Main Contacts <sup>1</sup> — 100 A Auxiliary Contacts — 3 A

 $\begin{array}{l} \text{Contact Resistance} & ---\\ \text{Main Contacts} & --\\ 100 \ \text{m}\Omega \ \text{max} @ 1 \ \text{amp}\\ 0.75 \ \text{m}\Omega \ \text{max} @ \text{rated current} \end{array}$ 

Auxiliary Contacts — 200 m $\Omega$  max Electric Life at Rated Current 270

Vdc, Resistive Load — 25,000 cycles

Mechanical Life — 1 million cycles Dielectric Withstand Voltage — Terminal to Terminal/ Terminals to Coil — 1mA max @ 1,300Vrms Insulation Resistance —

Terminal to Terminal/ Terminals to Coil — 100M  $\Omega$  min @ 500V dc new 50M  $\Omega$  min @ 500V dc end of life

Note:

<sup>1</sup> Continuous current rating is affected by conductors attached. Keep terminals below 150°C max continuous.

#### **Ordering Information**

Typical Part Number ► <u>MAP101</u> R B A F E
Series: MAP101 = 100 Amp, 12-900VDC Contactor
Dual Contact Material
Contact Form: R - Latch with 1 SPST NO Aux.
Coil Voltage: B = 28 Vdc Coil
Lead Length: A = 15.3 in. (300 mm)
Coil Terminal Connector: N = None F = Plug on Flying Lead, 9 Pin Micro-D

**Mounting & Power Terminals** • E = side mount with 2x#8 10-32 Female Power Terminals

Coil Data

Coil Voltage, Nominal/ Max — 28/ 32 Vdc

Pick Up/ Drop Out (Max) — 16 Vdc (-55°C to +25°C) 18 Vdc (+25°C to +85°C) Coil Current (Max) @ 32Vdc/

-40°C — 4.0 A

Coil Current On Time (Minimum Required to Latch) — 40 ms Main Contacts — Operate Time (Max) — 40 ms Operate Bounce (Max) — 5 ms

Operate Bounce (Max) — 5 ms Release Time — 25 ms

 $\begin{array}{l} \textbf{Auxiliary Contacts Operate/} \\ \textbf{Release} & -- \text{Within} \pm 5 \text{ ms of main} \end{array}$ 

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Catalog 5-1773450-5 Revised 3-13

805-220-2055.

www.te.com

For factory-direct application assistance, dial 800-253-4560, ext. 2055, or

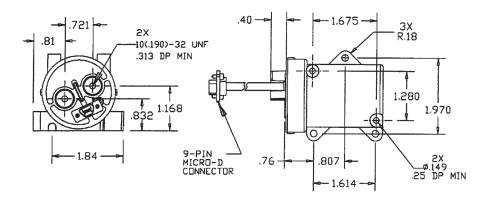
Dimensions are shown for reference purposes only. Specifications subject to change. Dimensions are in millimeters unless otherwise specified.

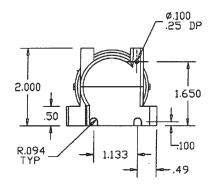
USA: +1 800 522 6752 Asia Pacific: +86 0 400 820 6015 UK: +44 800 267 666 For additional support numbers please visit www.te.com

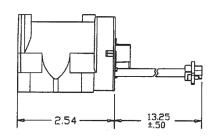


# KILOVAC MAP101 Series Contactor (Continued)

## **Outline Dimensions**

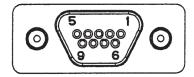






#### **Connector Pin-Out**

1	Not Connected
2	Aux. NO
3	Close Return
4	Close Return
5	+28Vdc
6	Aux. Com.
7	Open Return
8	Open Return
9	+28V



KILOVAC High Voltage DC Contactors

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For additional support numbers please visit www.te.com **■** 7–7